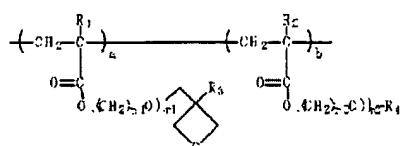


**POLYMER ELECTROLYTE AND ITS MANUFACTURING METHOD****[71] Applicant:** UBE IND LTD**[72] Inventors:** MIWA YOSHIYUKI**[21] Application No.:** JP2001225722**[22] Filed:** 20010726**[43] Published:** 20030214[Go to Fulltext](#)**[57] Abstract:**

**PROBLEM TO BE SOLVED:** To provide a polymer electrolyte that has a high ion conductivity even in the vicinity of room temperature and has an excellent film forming performance, flexibility, and mechanical strength. **SOLUTION:** This is a polymer electrolyte which contains a polymer compound made of a ring-opening polymer of oxetane compound having an acrylate skeleton as expressed by the formula (1) (provided that, in the formula (1), a and b are each independently 10-600, m1 and m2 are each independently 1-6, n1 and n2 are each independently 1≤n1≤20, 1≤n2≤20, and R<sub>1</sub>, R<sub>2</sub> expresses an alkyl group having carbon number 1-12 that may be branched each independently or hydrogen atom. R<sub>3</sub> and R<sub>4</sub> are alkyl group having carbon number 1-12 that may be branched each independently), a nonaqueous solvent, and an electrolyte salt, and the quantity of the nonaqueous solvent is 5-400 parts weight to the 100 parts weight of the above polymer compound.

**[51] Int'l Class:** H01B00106 C08G06522 C08K00300 C08L07100  
G02F00115 H01B01300 H01G009028 H01M01040